

(GW/UST-2)

## Site Investigation Report For Permanent Closure or Change-in-Service of U.S.T.

FOR  
TANKS  
IN  
NC

## Return Completed Form To:

The appropriate DEM Regional Office according to the county of the facility's location.  
[SEE MAP ON REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL  
OFFICE ADDRESS].

State Use Only

I.D. Number **AUG 31 1992**Date Received **Winston-Salem**

## INSTRUCTIONS

Complete and return within (30) days following completion of site investigation.

## I. Ownership of Tank(s)

Mr. Harold Hall

Owner Name (Corporation, Individual, Public Agency, or Other Entity)

P.O. Box 396

Street Address

Guilford

County

Jamestown NC 27282

City

919

State

454-2878

Zip Code

Area Code

Telephone Number

## II. Location of Tank(s)

Vacant Station

Facility Name or Company

Facility ID # (if available)

108 West Main Street

Street Address or State Road

Guilford Jamestown 27282

County

919

City

454-2878

Zip Code

Area Code

Telephone Number

## III. Contact Person

Mr. Harold Hall

Owner

919-454-2878

Name

Job Title

Telephone No. (Area Code)

Closure Contractor SPATCO Environmental 556-1 Arbor Hill Rd. Kernersville NC 919-996-0573

(Name)

(Address)

Telephone No. (Area Code)

Lab EnviroTech Mid-Atlantic 1861 Pratt Dr. Blacksburg VA

(Name)

(Address)

Telephone No. (Area Code)

## IV. U.S.T. Information

## V. Excavation Condition

## VI. Additional Information Required

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in Excavation		Free Product		Notable Odor or Visible Soil Contamination	
				Yes	No	Yes	No	Yes	No
1	12,000	10' x 20'8"	Diesel Fuel	X			X	X	
2	12,000	10' x 20'8"	#2 Fuel Oil	X			X	X	
3	6,000	8' x 16'2"	Gasoline	X			X	X	
4	6,000	8' x 16'2"	Gasoline	X			X	X	
5	1,000	48" x 10'8"	Waste Oil		X		X		X
6	550	48" x 5'10"	Kerosene		X		X		X

See reverse side of pink copy (owner's copy) for additional information required by N.C. - DEM in the written report and sketch.

## VII. Check List

Check the activities completed.

- ☒ Contact local fire marshal  
☒ Notify DEM Regional Office before abandonment  
☒ Drain & flush piping into tank  
☒ Remove all product and residuals from tank  
☒ Excavate down to tank  
☒ Clean and inspect tank  
☒ Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.  
☒ Cap or plug all lines except the vent and fill lines.  
☒ Purge tank of all product & flammable vapors.  
☐ Cut one or more large holes in the tanks.  
☐ Backfill the area.  
Date Tank(s) Permanently closed: 6-23-92  
Date of Change-in-Service: \_\_\_\_\_

## ABANDONMENT IN PLACE

- ☐ Fill tank until material overflows tank opening;  
☐ Plug or cap all openings;  
☐ Disconnect and cap or remove vent line  
☐ Solid inert material used - specify: \_\_\_\_\_

## REMOVAL

- ☐ Create vent hole  
☒ Label tank  
☒ Dispose of tank in approved manner  
Final tank destination: Safeway Tank  
Disposal, Colfax, NC

## VIII. Certification (Read and Sign)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Print name and official title of owner or owner's authorized representative

Signature

Date Signed

Harold E. Hall

8-12-92

RECEIVED  
N.C. Dept. of EHNR

AUG 31 1992

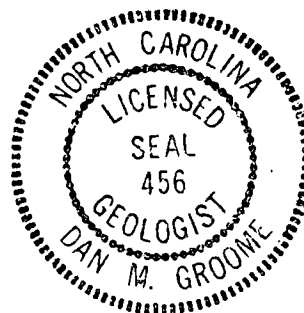
Winston-Salem  
Regional Office

July 22, 1992

Report of Tank Removal  
108 W. Main Street  
Jamestown, NC

Prepared for:  
Mr. Harold Hall  
P.O. Box 396  
Jamestown, NC 27282

Prepared by:  
Dan M. Groome, P.G.  
SPATCO Environmental  
556-L Arbor Hill Road  
Kernersville, NC 27284



Dan M. Groome

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Appendix II	Certificates of proper disposal
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## 1.0 Introduction

On June 22 and June 23, 1992, SPATCO Environmental excavated and removed seven (7) steel underground storage tanks (USTs) from the subject site. Table 1 summarizes relevant information pertaining to the USTs.

Table 1:  
UST Data

Tank #	Dimensions (DxL)	Volume (gallons)	Depth Below Surface (feet)	Type of Product
1	10'x 20'8"	12,000	1.5	Diesel
2	10'x 20'8"	12,000	1.5	Diesel
3	4'x 6'2"	550	2.5	Kerosene
4	4'x 10'8"	1,000	2.5	Waste Oil
5	8'x 26'7"	10,000	2.5	Gasoline
6	8'x 16'	6,000	2.5	Gasoline
7	8'x 16'	6,000	2.5	Gasoline

Prior to removal, the USTs were inerted with dry ice. Subsequent to removal, the USTs were visually examined. USTs #4 and #7 had perforations. Staining and odor were present in all of the excavations. Groundwater was observed in the excavations for UST #1, UST #2, UST #5, UST #6, and UST #7. The former locations of the USTs are shown on Figure 1 located in Appendix I. A certificate of proper tank disposal is included in Appendix II.

## 2.0 Soil Sampling and OVA Evaluation

Soil samples were obtained from either hand auger borings (designated HB) or directly from the excavator bucket (designated BS). The soil sample locations are shown on

Figure 2 included in Appendix I. The hand augers used to collect samples were thoroughly decontaminated prior to and between each use by a soap and water wash, tap water rinse, a methanol alcohol rinse, and a final rinse in deionized water. Each individual soil sample was split into representative duplicates, one half evaluated with an Organic Vapor Analyzer (OVA) and the other half placed in a new clean jar for laboratory analysis. To minimize the risk of accidental contamination, new, disposable latex gloves were worn during each transfer of soil. A summary of the OVA readings is presented in Table 2.

Due to the evidence of product leakage, the soils from the excavations were stockpiled in temporary containment areas on site.

Table 2:  
 OVA Readings

Sample #	UST #	Sample Depth (feet)	OVA Reading (ppm)
BS-1-12	1 12K	12	25
BS-2-12	1	12	8
BS-3-12	1	12	4
BS-4-12	2 12K	12	ND*
BS-5-12	2	12	750
BS-6-12	2	12	15
BS-7-3	**P.L.	3	ND
HB-8-7	3 550 K	7	30
HB-9-8	4 1K W.O	8	ND
HB-10-8	4	8	ND
HB-11-3	P.L.	3	ND
HB-12-3	P.L.	3	ND
HB-13-3	P.L.	3	ND
HB-14-12	5 10K	12	>1000
BS-15-12	5	12	>1000
BS-16-12	5	12	>1000
BS-17-12	6 6K	12	>1000
BS-18-12	6	12	>1000
BS-19-12	7 6K	12	>1000
BS-20-12	7	12	>1000
HB-21-3	P.L.	3	ND

\*ND = No detection

\*\*P.L. = Product Line

### 3.0 Laboratory Analysis

The soils samples were immediately placed in a chilled cooler after collection, refrigerated while stored at SPATCO Environmental offices, and shipped to EnviroTech Mid-Atlantic in a chilled cooler for analysis. The samples from the diesel fuel UST excavations and the diesel fuel product line were analyzed for Total Petroleum Hydrocarbons (TPH) - EPA Method 3550. The sample from the kerosene UST excavation was also analyzed for TPH. The samples from the waste oil UST excavation were analyzed for Oil and Grease - EPA Method 9071. The samples from the gasoline UST excavation were analyzed for Total Petroleum Fuel Hydrocarbons (TPFH) - EPA Method 5030. The results of the laboratory analyses are summarized in Table 3.

Table 3:  
Soil Sample Laboratory Results

Sample #	Sample Depth	TPH (ppm)	TPFH (ppm)	Oil and grease (ppm)
BS-1-12	12 12K	11,000	NA*	NA
BS-2-12	12	1,500	NA	NA
BS-3-12	12	2,900	NA	NA
BS-4-12	12 12K	1,300	NA	NA
BS-5-12	12	7,300	NA	NA
BS-6-12	12	2,900	NA	NA
HB-8-7.5	7.5 650 K	11,000	NA	NA
HB-8-7	7	BDL**	NA	NA
HB-9-8	8 1K WD	NA	NA	170
HB-10-8	8 1K WD	NA	NA	260
HB-11-3	3 P.L	28	NA	NA
HB-12-3	3 P.L	BDL	NA	NA
HB-13-2	2 P.L	BDL	NA	NA
BS-14-10	10 10K	NA	1,500	NA
BS-15-10	10	NA	43	NA
BS-16-10	10	NA	1,700	NA
BS-17-12	12 6K	NA	880	NA
BS-18-12	12	NA	500	NA
BS-19-12	12 6K	NA	1,300	NA
BS-20-12	12	NA	290	NA
HB-21-3	3 P.L	160	NA	NA

\*NA = No analysis

\*\*BDL = Below detection limits

P.L Product line



#### 4.0 Conclusions and Recommendations

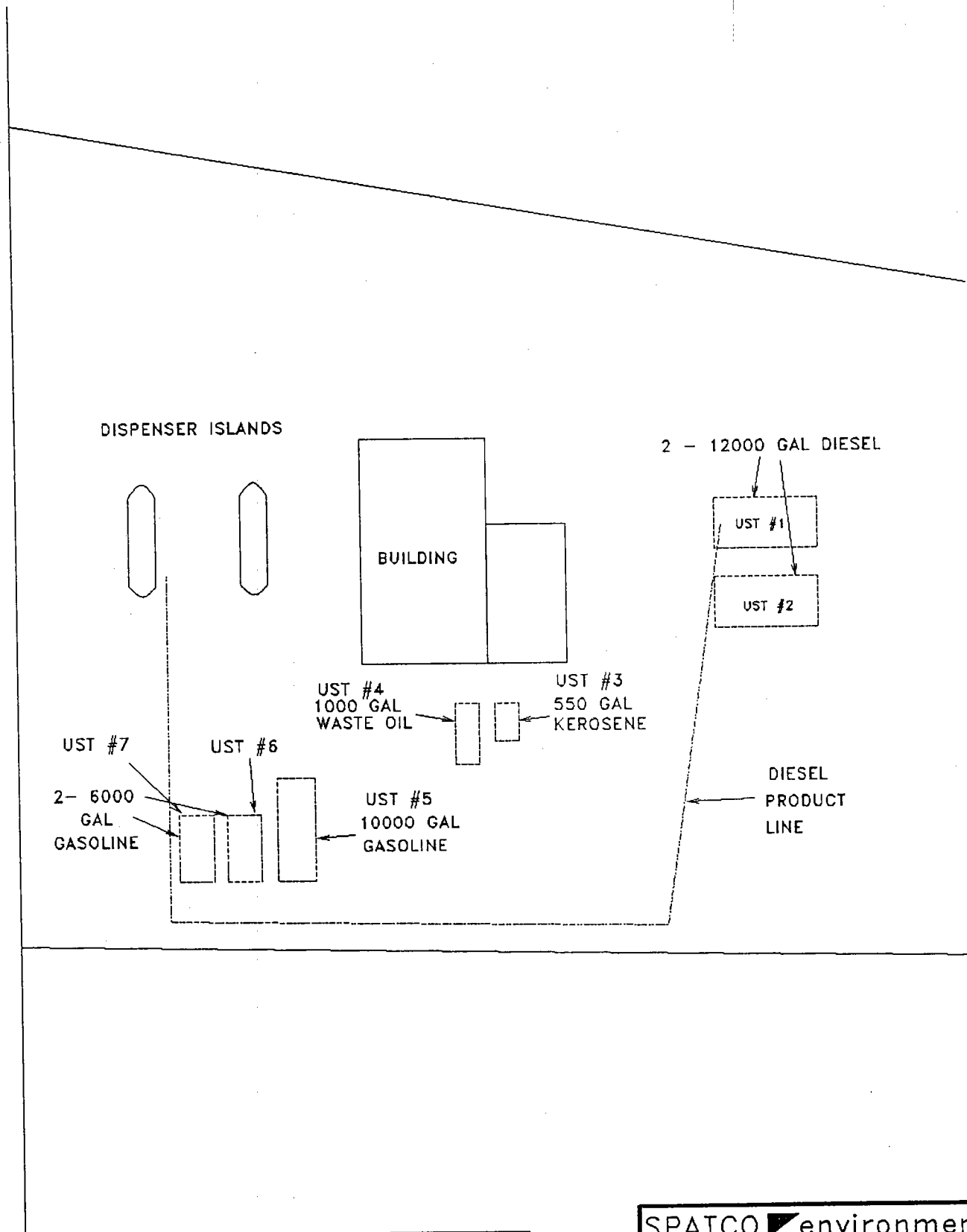
The laboratory analyses indicate that product release has occurred in all of the UST excavations. The quantities of petroleum hydrocarbons present are in excess of levels allowed by the North Carolina Division of Environmental Management (NCDEM).

Due to the presence of groundwater at the base of the gasoline and diesel fuel USTs, we do not recommend further soil excavation as a remediation strategy in these areas. However, additional soil excavation should be performed in the waste oil and kerosene UST areas. For soils containing waste oil, NCDEM guidelines require additional laboratory testing before excavation is performed.

The contaminated soils that are stockpiled on site, as well as soils that are to be excavated from the waste oil and kerosene UST areas, should be disposed of properly. Due to limited space on site, we do not believe that treatment on site is a viable alternative. Transportation to an approved incineration facility may be the most practical alternative for disposing of the impacted soils.

The presence of groundwater in the UST excavations indicates that the groundwater is likely to be contaminated by the release of product. The NCDEM will likely require that an investigation be performed to determine the extent of contamination. We recommend that a minimum of three (3) groundwater monitoring wells be installed in order to initiate the investigation.

This report and attachments are for your files; however, Federal regulations (specifically, 40 CFR §280.62[b]) require that the information contained herein be reported to the Guilford County Emergency Services, Attention Ms. Kelly Gage, P.O. Box 18807, Greensboro, NC 27419-8807. We also recommend submitting a copy to the North Carolina Division of Environmental Management (NCDEM), 8025 North Point Blvd., Suite 100 East, Winston Salem, NC 27106. Duplicate copies of this report are enclosed for your use.



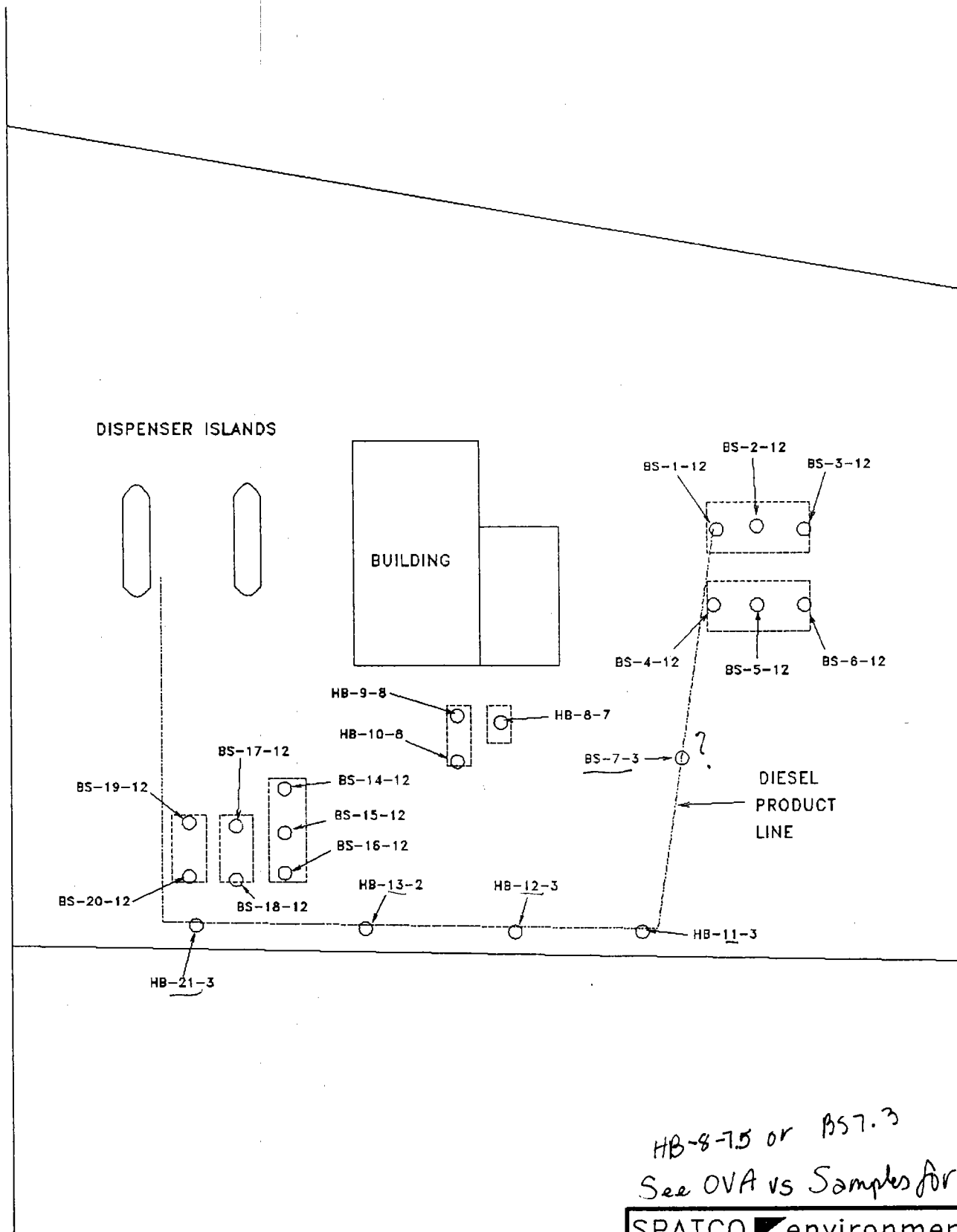
40 0 40 80  
APPROXIMATE SCALE  
1" = 40'

SPATCO environmental

FIGURE 1 - FORMER UST LOCATIONS  
108 W. MAIN ST.  
JAMESTOWN, NC

WO#

DATE:  
DRAWN BY:



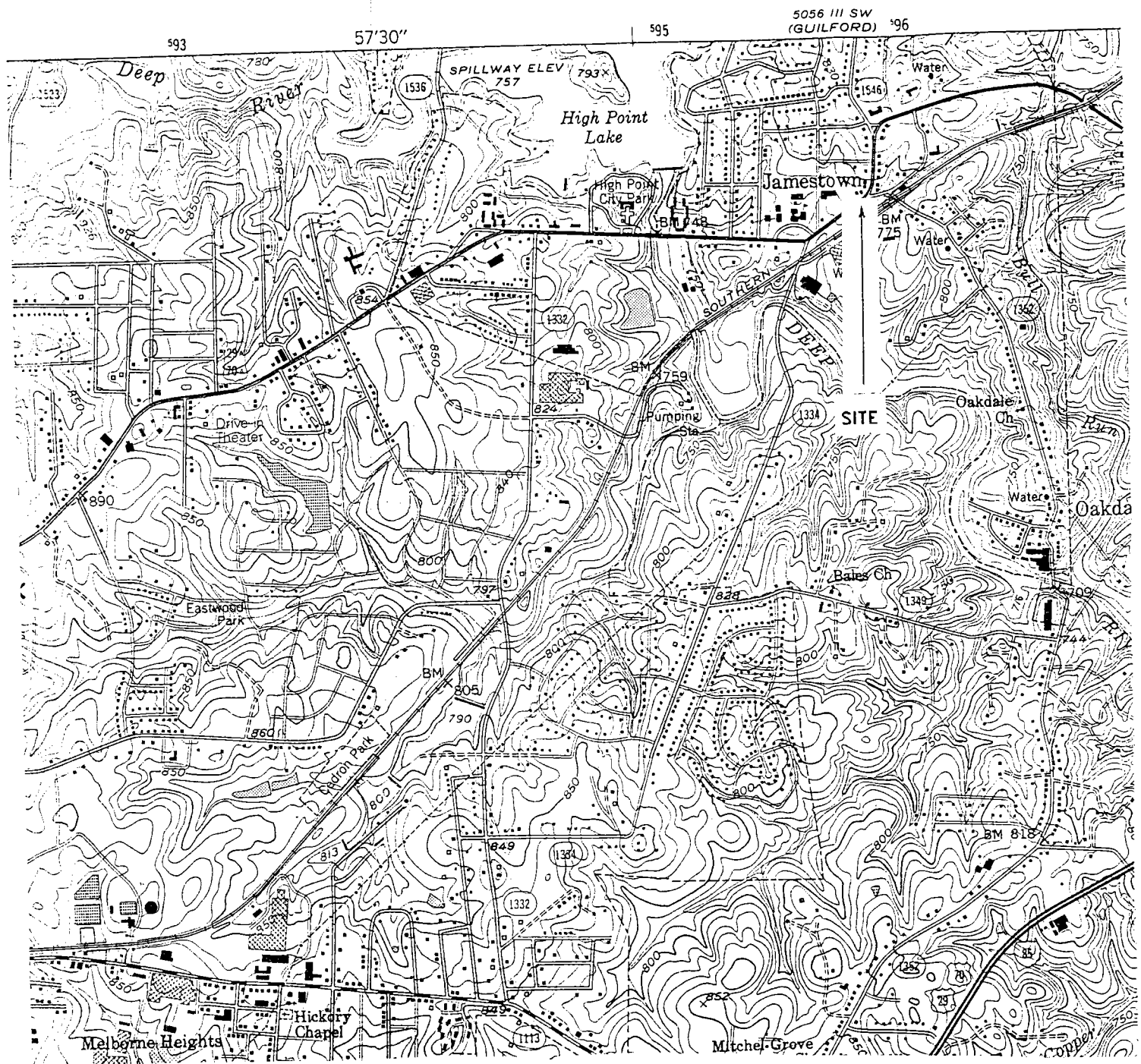
*HB-8-7.5 or BS-7.3  
See OVA vs Samples for*

**SPATCO environmental**

**FIGURE 2 - SOIL SAMPLE LOCATIONS**  
108 W. MAIN ST.  
JAMESTOWN, NC

WO#

DATE:  
DRAWN BY:



SPATCO environmental

FIGURE 3 - BASE MAP  
108 W. MAIN ST.  
JAMESTOWN, NC

WO#

DATE:  
DRAWN BY:

SPATCO Environmental  
556-L Arbor Hill Road  
Kernersville, NC 27284  
(919) 996-0573

CERTIFICATION OF PROPER DISPOSAL  
USED UNDERGROUND STORAGE TANKS

The undersigned hereby declares that he has disposed of the tanks removed from the property of Mr. Harold Hall, P.O. Box 396, Jamestown, NC 27282, known as "the Company", property located at 108 West Main Street, Jamestown, in the County of Guilford, and State of North Carolina, in a manner consistent with all applicable federal, state and local laws governing such disposal.

The undersigned further certifies that the Company has notified him of the previous use of the tanks in the storage of toxic, explosive, flammable petroleum liquids, and that it is sold as scrap metal only, he having rendered it useless as a storage vessel by mechanical rending of its walls.

The undersigned assumes all risk with respect to the tanks and will indemnify and save the Company harmless from all claims and liability of every kind in any way connected with its use or existence. These USTs were disposed of at Safeway Tank Disposal, Inc., P.O. Box 581, Walnut Cove, NC 27052, (919) 996-2249.

- (2) 12,000 gallon UST as Fuel Oil
- (2) 6,000 gallon UST as Gasoline
- (1) 1,000 gallon UST as Waste Oil
- (1) 550 gallon UST as Fuel Oil

Signed at Kernersville, NC, this 10th day of July, 1992.

SPATCO ENVIRONMENTAL

Dan M. Groome  
(signed)

Dan M. Groome, P.G.

In the presence of:

John B Peters  
Bill Stewart

SPATCO Environmental  
556-L Arbor Hill Road  
Kernersville, NC 27284  
(919) 996-0573

CERTIFICATION OF PROPER DISPOSAL  
USED UNDERGROUND STORAGE TANKS

The undersigned hereby declares that he has disposed of the tanks removed from the property of Mid-State Oil Company, P.O. Box 849, Lexington, NC 27292, known as "the Company", property located at Sunoco, 108 West Main Street, Jamestown, in the County of Guilford, and State of North Carolina, in a manner consistent with all applicable federal, state and local laws governing such disposal.

The undersigned further certifies that the Company has notified him of the previous use of the tanks in the storage of toxic, explosive, flammable petroleum liquids, and that it is sold as scrap metal only, he having rendered it useless as a storage vessel by mechanical rending of its walls.

The undersigned assumes all risk with respect to the tanks and will indemnify and save the Company harmless from all claims and liability of every kind in any way connected with its use or existence. This UST was disposed of at Safeway Tank Disposal, Inc., P.O. Box 581, Walnut Cove, NC 27052, (919) 996-2249.

(1) 10,000 gallon UST as Gasoline

Signed at Kernersville, NC, this 10th day of July, 1992.

SPATCO ENVIRONMENTAL

Dan M. Groome

(signed)

Dan M. Groome, P.G.

In the presence of:

John Belk

Bill Stewart

SPATCO Environmental  
556-L Arbor Hill Road  
Kernersville, NC 27284  
(919) 996-0573

CERTIFICATION OF PROPER DISPOSAL  
WASTEWATER AND/OR RESIDUE

The undersigned hereby declares that he has disposed of the wastewater/residue vacuumed or removed from tank(s) located at the property of Harold Hall, P.O. Box 396, Jamestown, NC 27282, hereinafter known as "the Company", property located at 108 West Main Street, Jamestown, in the County of Guilford, and State of North Carolina, in a manner consistent with all applicable federal, state and local laws governing such disposal.

The undersigned further certifies that 480 gallons residue was disposed in accordance with U.S. EPA Regulations by Safeway Tank Disposal, Inc., P.O. Box 581, Walnut Cove, NC 27052, (919) 996-2249.

Signed at Kernersville, NC, this 7th day of July, 1992.

SPATCO ENVIRONMENTAL

Dan M. Groome

(signed)

Dan M. Groome, Geologist

In the presence of:

John B Peters

Bill Stewart



*SPATCO Environmental  
556-L Arbor Hill Road  
Kernersville, NC 27284  
(919) 996-0573*

CERTIFICATION OF PROPER DISPOSAL  
WASTEWATER AND/OR RESIDUE

The undersigned hereby declares that he has disposed of the wastewater/residue vacuumed or removed from tank(s) located at the property of Mid-State Oil Company, P.O. Box 849, Lexington, NC 27292, hereinafter known as "the Company", property located at Sunoco, 108 West Main Street, Jamestown, in the County of Guilford, and State of North Carolina, in a manner consistent with all applicable federal, state and local laws governing such disposal.

The undersigned further certifies that 66 gallons residue was disposed in accordance with U.S. EPA Regulations by Safeway Tank Disposal, Inc., P.O. Box 581, Walnut Cove, NC 27052, (919) 996-2249.

Signed at Kernersville, NC, this 10th day of July, 1992.

SPATCO ENVIRONMENTAL

Dan M. Groome  
(signed)

Dan M. Groome, Geologist

In the presence of:

John B. Peters  
Bill Stewart



## EnviroTech Mid-Atlantic

Virginia Tech Research Center  
1861 Pratt Drive  
Blacksburg, Virginia 24060  
(703) 231-3983 FAX (703) 231-3984

JULY 15, 1992

CLIENT : SPATCO ENVIRONMENTAL  
ADDRESS: 556L ARBOR HILL RD  
KERNERSVILLE, NC 27284

REPORT # : 4009  
DATE RECEIVED: 7/07/92

ATTENTION: DAN M GROOME  
REFERENCE: HAROLD HALL  
PROJECT NO:  
PURCHASE ORDER: 2597

FAX: 919-996-0530  
PAGE 1 OF 2

### SAMPLE IDENTIFICATION AND ANALYSIS RESULTS

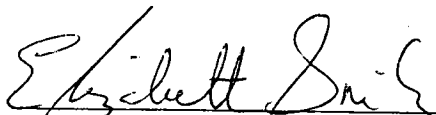
HAROLD HALL 108 W MAIN ST JAMESTOWN, NC

SAMPLE	FIELD ID	DATE/TIME	TPH	TPFH	OIL&GREASE
			EPA 3550M	EPA 5030	EPA 9071
4009A	BS-1-12	6-22/1240	11,000 ppm		
4009B	BS-2-12	6-22/1245	1,500 ppm		
4009C	BS-3-12	6-22/1250	2,900 ppm		
4009D	BS-4-12	6-22/1420	1,300 ppm		
4009E	BS-5-12	6-22/1430	7,300 ppm		
4009F	BS-6-12	6-22/1450	2,900 ppm		
4009G	HB-8-7.5	6-22/1535	11,000 ppm		
4009H	HB-8-7	6-22/1450	BDL		
4009I	HB-9-8	6-23/0945			170 mg/L
4009J	HB-10-8	6-23/0955			260 mg/L
4009K	HB-11-3	6-23/1430	28 ppm		
4009L	HB-12-3	6-23/1445	BDL		
4009M	HB-13-2	6-23/1525	BDL		
4009N	BS-14-10	6-23/1445		1,500 ppm	
4009O	BS-15-10	6-23/1450		43 ppm	
4009P	BS-16-10	6-23/1500		1,700 ppm	
4009Q	BS-17-12	6-23/1600		880 ppm	
4009R	BS-18-12	6-23/1615		500 ppm	
4009S	BS-19-12	6-23/1700		1,300 ppm	
4009T	BS-20-12	6-23/1705		290 ppm	
4009U	HB-21-3	6-24/1640	160 ppm		

BDL - BELOW DETECTION LIMIT

ENVIROTECH MID-ATLANTIC  
REPORT # :4009  
DATE REPORTED:7/15/92  
REFERENCE:HAROLD HALL  
PAGE: 2 OF 2

ANALYSIS	DETECTION	QUALITY CONTROL DATA		
		%STD	%SPIKE	%RD
OIL & GREASE	5	93	90	0
TPH	10	108	82	4
TPFH				
C BENZENE			97	6.2
BENZENE			100	2.0
TOLUENE			99	1.0
4009N	50			
4009O	5			
4009P-Q	50			
4009R	25			
4009S	50			
4009U	5			

  
LABORATORY DIRECTOR  
Elizabeth B. Smiley

PROJECT		FIELD SAMPLE I.D.		SAMPLE MATRIX		DATE/TIME	NO. OF CONTAINERS	ANALYSES	REMARKS	SATA ID NO. (for lab use only)
PROJECT	SITE	FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME						
#2597	Harold Hall	BS-1-12	Soil	6-22-92/1240	1	✓	✓			4009 A
		BS-2-12	"	6-22-92/1245	1	✓	✓			B
		BS-3-12	"	6-22-92/1250	1	✓	✓			C
		BS-4-12	"	6-22-92/1420	1	✓	✓			D
		BS-5-12	"	6-22-92/1430	1	✓	✓			E
		BS-6-12	"	6-22-92/1450	1	✓	✓			F
		BS-8-7.5 *	"	6-22-92/1535	1	✓	✓			G
<p>REMARKS: These samples inadvertently left out of shipment sent on 6-30-92</p> <p>Changed per Dan Groome 7/1/92</p> <p>DBH</p>										

RECEIVED BY:		DATE		TIME		RECEIVED BY:		DATE		TIME	

RECEIVED FOR LABORATORY BY:		DATE		TIME		ANALYST NO.		OPERATED BY:		DATE		TIME		TEMP °C		SEAL #		CONDITION	

REMARKS:	
248 362 7016	

[illegible]

LAB USE ONLY									
RECEIVED FOR LABORATORY BY:	DATE:	TIME:	ANALYST NO:	OPENED BY:	DATE:	TIME:	TEMP °C:	SEAL #:	CONDITION:
<i>[Signature]</i>	7-1-92	1 PM					7		
REMARKS:									

556 E. AMBROSIO BLVD.  
KENTERSVILLE, NORTH CAROLINA 27264  
PHONE 919/996-0573

Environmental

Chain of Custody Record

SOUTHERN PUMP & TANK COMPANY

Page 2 of 3

PROJECT Harold Hall	# 2597	NO. OF CONTAINERS		ANALYSES				REMARKS	SATA ID NO. (for lab use only)
SITE 108 W. Main St. Jonesboro N.C.									
COLLECTED BY (Signature) of D. M. Groome									
FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME							
HB-10-8	Soil	6/3/92-0955						work o.i.	4009 J
HB-11-3	"	6-23-92/1430						lined	K
HB-12-3	"	6-23-92/1445						↓	L
<del>HB-13-3</del> HB-13-2	"	6-23-92/1525						↓	M
<del>HB-14-3</del> BS-14-10	"	6-23-92/1445						Caroline	N
HB-15-12	"	6-23-92/1450							O
HB-16-12	"	6-23-92/1500							P
HB-17-12	"	6-23-92/1600							Q
HB-18-12	"	6-23-92/1615							R
REMARKS Changed Field IDs per D. Groome 7/7/92 RBT								RELINQUISHED BY:	DATE TIME
RECEIVED BY:	DATE TIME	RELINQUISHED BY:	DATE TIME	RECEIVED BY:	DATE TIME	RELINQUISHED BY:	DATE TIME	RELINQUISHED BY:	DATE TIME

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE TIME	ARRIVAL NO.	DATE TIME	TEMP °C	SEAL #	CONDITION
J.T. Jones	7/1/92 10am		7/1/92 10am	7		
REMARKS						

[illegible]

RECEIVED FOR RADIOACTIVITY BY: <i>[Signature]</i>	DATE: 7-1-92	TIME: 1:00 PM	ANALYST, NO.	OPERATED BY:	DATE:	TIME:	TEMP °C:	SEAL #:	CONDITION:
<p>NEUTRONICS</p>									